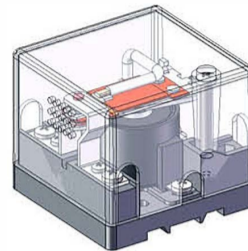




CTFB.

HIGH CURRENT INDUSTRIAL CONTROL RELAY

FEATURES

- ▶ 69 X 67.5 X 60(H) MM.
- ▶ 125A MAX SWITCHING CAPACITY.
- ▶ FOR INDUSTRIAL AND COMMERCIAL CONTROL.
- ▶ PIN PITCH MEETS GLOBAL STANDARD.
- ▶ MEETS UL94-HB STANDARDS.



 File Number: PENDING
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CONTACT RATINGS

Contact Form	1C
Contact Resistance	≤50mΩ (1A 6VDC)
Contact Material	Ag Alloy
Rated Load (Resistive)	125A 250VAC 125A 30VDC
Max. Switching Current	125A
Max. Switching Power	31,250VA / 3,750W
Max. Switching Voltage	250VAC / 30VDC
Min. Permissible Load	1A at 5VDC
Contact Voltage Drop	Typ.: NO / NC: 20mV / 30mV; Max.: 250mV (Test under 10A)

CHARACTERISTICS

Operate Time	≤ 25ms	
Release Time	≤ 25ms	
Insulation Resistance	1,000MΩ (@ 500VDC)	
Dielectric Strength	I / O	O / O
	2,500VAC 1min	1,500VAC 1 min
Impulse Withstand Voltage	10,000V (1.2 x 50μs)	
Shock Resistance	Non-energized	Destruction
	100 m/s ² (10G)	1,000 m/s ² (100G)
Vibration Resistance	Malfunction	
	10 to 55 Hz, (1.5mm double amplitude)	10 to 55 Hz, (1.5mm double amplitude)
Ambient Temperature	Operating: -20°C to +55°C with no icing or condensation	
Ambient Humidity	Operating: 5% to 85%	
Mount Type	Screw	
Weight	Approx. 240g	

NOTE: The data shown above are initial values.

COIL DATA

DC Coil	Approx. 2W				
Rated Voltage (VDC)	Operate Voltage (VDC)	Release Voltage (VDC)	Max. Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) ±10%
6	≤4.3	≥0.6	6.6	480	12.5
12	≤8.5	≥1.2	13.2	166.7	72
24	≤17	≥2.4	26.4	83.3	288
48	≤34	≥4.8	52.8	40.3	1,190
110	≤78	≥11	121	18.3	6,000
AC Coil	Approx. 3.2VA				
Rated Voltage (VDC)	Operate Voltage (VDC)	Release Voltage (VDC)	Max. Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) ±10%
12	≤8.5	≥1.2	13.2	333.3	36
24	≤17	≥2.4	26.4	166.7	144
110	≤78	≥11	121	36.7	3,000
220	≤156	≥22	242	18.3	12,000
380	≤266	≥38	418	10.6	35,800

LIFE EXPECTANCY DATA

Mechanical Life Expectancy	1,000,000 Operations
	100,000 Operations (NO: 120A 250VAC Resistive Load, 1s ON / 9s OFF)

NOTE: The electrical life data items shown are possible at 23°C.

ORDERING INFORMATION

Type	Contact / Seal Key	Coil Key	
CTFB	1 C H	/ 12 VDC	
			X / XX / XXX: Coil Voltage
			Structure
			NO of Pole
			Contact Form

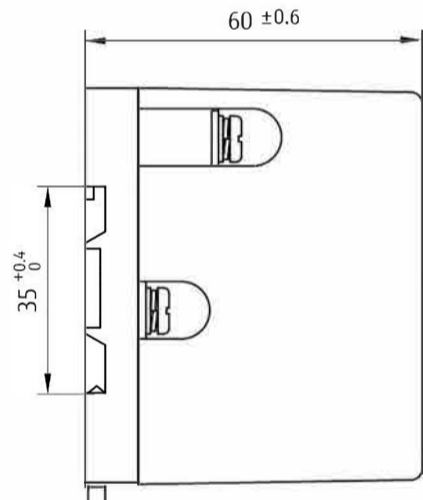
Example: CTFB-1CH / 12VDC stands for 1 FORM C Screw Type 125A CTFB relay, coil voltage is 12VDC. For full list of ordering codes please visit our website.

DIMENSIONS (UNIT: MM)

Outline Dimensions



Bottom Layout



Wiring Diagram

